AUTHOR INDEX

Abotsi, G.M.K., see Derbyshire, F.J. 117

Aduriz, H.R., see Gigola, C.E. 133 Ai, M.

Selective oxidation of acrolein to acrylic acid by $V_2^0 - P_2^0 = 0.05$ catalysts 167

Andersson, L.A.H., see Odenbrand, C.U.I. 363

Andreini, A.

--, Xiaoding, X. and Mol, J.C.
Activity of
Re₂0₇/Si0₂.Al₂0₃ catalysts
for propene metathesis and the
influence of alkyltin promotors
Angevine, P.J., see Fischer, R.H. 275

Antoshin, G.V., see Bragin, O.V. 219 Beer, V.H.J. de, see Derbyshire, F.J. 117

Berry, F.J.

--, Lin, L., Liang, D., Wang, C., Tang, R. and Zhang, S.
An investigation of metal-support interactions in some iron, ruthenium and iron-ruthenium catalysts by in situ iron-57 Mössbauer spectroscopy 195

Bodnariuk, P., see Gigola, C.E. 133 Bond, G.C.

--, Perez Zurita, J. and Flamerz, S. Structure and reactivity of titania-supported oxides. Part 2: characterisation of various vanadium oxide on titania catalysts by X-ray photoelectron spectroscopy 353

Bond, G.C.

--, Rajaram, R.R. and Burch, R.
Thermal analysis of catalyst
precursors. Part 1. Temperature
programmed evolution of hydrogen
chloride during the reduction of
supported ruthenium trichloride

Bosch, H., see Lansink Rotgerink, H.G.J. 41

Bragin, O.V.

--, Shpiro, E.S., Preobrazhensky, A.V., Isaev, S.A., Vasina, T.V., Dyusenbina, B.B., Antoshin, G.V. and Minachev, Kh.M. The state of platinum in high-silica zeolites and its catalytic activity in ethane and propane aromatization 219

Brandin, J.G.M., see Odenbrand, C.U.I. 363

Brandreth, B.J., see Jackson, S.D. 325

Burch, R., see Bond, G.C. 379
Cant, N.W., see Maitra, A.M. 9
Czako-Nagy, I., see Visokov, G.P. 257
Da Silva, P.N., see Guenin, M. 313
De Beer, V.H.J., see Derbyshire, F.J.
117

Denise, B.

-- and Sneeden, R.P.A.
Composite catalysts: selectivity
towards light hydrocarbons in the
transformation of CO/H₂ on
CuO/ZnO - mordenite systems 107

Derbyshire, F.J.

--, De Beer, V.H.J., Abotsi, G.M.K.,
Scaroni, A.W., Solar, J.M. and
Skrovanek, D.J.
The influence of surface

functionality on the activity of carbon-supported catalysts 117

Duprez, D.

--, Mendez, M. and Little, J.
Evaluation of a method for characterizing coked and sulphided Rh/Al₂O₃ catalysts: study of the space and time dependence of sulphur deposition on Rh/Al₂O₃ in toluene steam reforming 145
Dyusenbina, B.B., see Bragin, O.V. 219

Dyusenbina, B.B., see Bragin, O.V. 219
Ernst, S., see Weitkamp, J. 207
Fernandez, C.

--, Grosmangin, J., Szabo, G. and Vedrine, J.C. Catalytic properties of modified offretites 335

Figoli, N.S., see Sedran, U.A. 397 Fischer, R.H.

-- and Angevine, P.J.

Dependence of resid processing selectivity on catalyst pore size distribution 275

Flamerz, S., see Bond, G.C. 353 Frety, R., see Guenin, M. 313 Gengembre, L., see Leclerq, G. 299 Gigola, C.E.

--, Aduriz, H.R. and Bodnariuk, P.
Particle size effect in the
hydrogenation of acetylene under
industrial conditions 133
Gormley, R.J., see Shamsi, A. 55
Grosmangin, J., see Fernandez, C. 335
Guenin, M.

--, Da Silva, P.N. and Frety, R.
Influence of chlorine towards
metal-support and metal-sulphur
support interactions 313
Hamada, H.

Hydrogenolysis of n-butane on

silica-supported Ru-Ir bimetallic catalysts 265

Imamura, H.

--, Kato, Y., Yamada, K. and Tsuchiya, S.
Preparation and properties of Raney catalysts from rare earth intermetallic compounds 243
Isaev, S.A., see Bragin, O.V. 219

Jackson, S.D.

--, Brandreth, B.J. and Winstanley, D. Carbon monoxide hydrogenation over group VIII metals supported on tungsten and molybdenum trioxides 325

Jirátová, K.

-- and Kraus, M. Effect of support properties on the catalytic activity of HDS catalysts 21

Kato, Y., see Imamura, H. 243

Kijowski, J.

--, Webb, G. and Winfield, J.M.
Radiotracers in fluorine chemistry.
Part X. Catalysis by fluorinated
surfaces. The interaction of
hydrogen fluoride or hydrogen
[10F]-fluoride with chromia
catalysts 181

Kraan, A.M. van der, see Van der Kraan, A.M. 285

Kraus, M., see Jirátová, K. 21 Kumar, R., see Weitkamp, J. 207

Kummerow, I.

--, Trimm, D.L. and Wainwright, M.S. An investigation of copper based catalysts for the selective hydrogenation of acetylenes in an industrial butadiene feedstock 16 Lansink Rotgerink, H.G.J.

--, Bosch, H., Van Ommen J.G. and Ross,

J.R.H.
The effect of Ni-Al ratio on the properties of coprecipitated nickel-alumina catalysts with high nickel contents 41

Leclerq, G.

--, Pietrzyk, S., Gengembre, L. and Leclerq, L.
Bimetallic Ni-Rh catalysts. I.
Surface composition and chemisorption properties 299

Leclerq, L., see Leclerq, G. 299
Liang, DL., see Berry, F.J. 195
Lin, L., see Berry, F.J. 195
Little, J., see Duprez, D. 145
Lundin, S.T., see Odenbrand, C.U.I.
363

Maitra, A.M.

--, Cant, N.W. and Trimm, D.L.
The preparation of tungsten based

catalysts by impregnation of alumina pellets 9

Mandersloot, W.G.B.

--, Nicolaides, C.P. and Scurrell, M.S. Comments on the effect of the acidic strength of silica-alumina in the conversion of methanol to hydrocarbons 393

McCabe, R.W.

-- and Mitchell, P.J. Exhaust-catalyst development for methanol-fueled vehicles: 1. Comparative study of methanol oxidation over alumina-supported catalysts containing group 9, 10, and 11 metals 83

Mendez, M., see Duprez, D. 145
Minachev, Kh.M., see Bragin, O.V. 219
Mitchell, P.J., see McCabe, R.W. 83
Mol, J.C., see Andreini, A. 31
Muramatsu, A., see Tatsumi, T. 69
Naasz, B.M., see Youchang, X. 233
Nicolaides, C.P., see Mandersloot,
W.G.B. 393

Niemantsverdriet, J.W., see Van der Kraan, A.M. 285

Nonnekens, R.C.H., see Van der Kraan, A.M. 285

Obermyer, R.T., see Shamsi, A. 55 Odenbrand, C.U.I.

--, Andersson, L.A.H., Brandin, J.G.M. and Lundin, S.T. Catalytic reduction of nitrogen oxides. 2. The reduction of NO 363

Ommen, J.G. van, see Lansink Rotgerink, H.G.J. 41

Peev, T.M., see Visokov, G.P. 257
Perez Zurita, J., see Bond, G.C. 353
Pietrzyk, S., see Leclerq, G. 299
Preobrazhensky, A.V., see Bragin, O.V.
219

Rajaram, R.R., see Bond, G.C. 379
Rao, V.S., see Shamsi, A. 55
Reddy, B.M.

-- and Subrahmanyam, V.S.

Oxygen chemisorption and activity studies on alumina- and carbon-supported hydrodesulphurization catalysts 1

Ross, J.R.H., see Lansink Rotgerink, H.G.J. 41

Rotgerink, H.G.J. Lansink, see Lansink Rotgerink, H.G.J. 41

Scaroni, A.W., see Derbyshire, F.J. 117

Schehl, R.R., see Shamsi, A. 55 Scurrell, M.S., see Mandersloot, W.G.B. 393

Sedran, U.A.

-- and Figoli, N.S.

Reply to the comments of Mandersloot et al. on the paper "Relation between acidity and activity during the transformation of methanol into hydrocarbons on amorphous silica-alumina", Appl. Catal., 19 (1985) 317 397

Shamsi, A.

--, Rao, V.S., Gormley, R.J., Obermyer, R.T., Schehl, R.R. and Stencel, J.M. Influence of preparative procedure on the activity and selectivity of FeZSM-5 catalysts in syngas conversion 55

Shpiro, E.S., see Bragin, O.V. 219 Silva, P.N. da, see Guenin, M. 313 Skrovanek, D.J., see Derbyshire, F.J.

Sneeden, R.P.A., see Denise, B. 107
Solar, J.M., see Derbyshire, F.J. 117
Somorjai, G.A., see Youchang, X. 233
Stencel, J.M., see Shamsi, A. 55
Stoop, F., see Van der Kraan, A.M. 285
Subrahmanyam, V.S., see Reddy, B.M. 1
Szabo, G., see Fernandez, C. 335
Tang, R., see Berry, F.J. 195
Tatsumi, T.

--, Muramatsu, A. and Tominaga, H.
Influence of support and potassium
on CO hydrogenation catalyzed by
molybdenum 69

Tominaga, H., see Tatsumi, T. 69
Trimm, D.L., see Kummerow, I. 161
Trimm, D.L., see Maitra, A.M. 9
Tsuchiya, S., see Imamura, H. 243
Van der Kraan, A.M.

--, Nonnekens, R.C.H., Stoop, F. and Niemantsverdriet, J.W.

Characterization of FeRu/TiO, and Fe/TiO, catalysts after reduction and Fischer-Tropsch synthesis by Mössbauer spectroscopy 285

Van Ommen, J.G., see Lansink Rotgerink, H.G.J. 41

Vasina, T.V., see Bragin, O.V. 219 Vedrine, J.C., see Fernandez, C. 335 Vértes, A., see Visokov, G.P. 257 Visokov, G.P.

--, Peev, T.M., Czako-Nagy, I. and Vértes, A. Physico-chemical and Mössbauer study of ammonia synthesis catalyst CA-1 regenerated in plasma 257

Wainwright, M.S., see Kummerow, I. 161 Wang, C., see Berry, F.J. 195 Webb, G., see Kijowski, J. 181 Weitkamp, J.

--, Ernst, S. and Kumar, R.
The spaciousness index: a novel test reaction for characterizing the effective pore width of bifunctional zeolite catalysts 207

Winfield, J.M., see Kijowski, J. 181 Winstanley, D., see Jackson, S.D. 325 Xiaoding, X., see Andreini, A. 31 Yamada, K., see Imamura, H. 243 Youchang, X.

--, Naasz, B.M. and Somorjai, G.A. Alcohol synthesis from CO and H₂ over molybdenum sulfide. The effect of pressure and promotion by potassium carbonate 233

Zaidi, S.A.H.
Liquid phase oxidation of p-xylene
to p-toluic acid 99
Zhang, S., see Berry, F.J. 195
Zurita, J. Perez, see Bond, G.C. 353

SUBJECT INDEX

Acetylene hydrogenation
Particle size effect in the
hydrogenation of acetylene under
industrial conditions 133

Acetylene hydrogenation

An investigation of copper based catalysts for the selective hydrogenation of acetylenes in an industrial butadiene feedstock 161

Acidity

Comments on the effect of the acidic strength of silica-alumina in the conversion of methanol to hydrocarbons 393

Acidity

Reply to the comments of Mandersloot et al. on the paper "Relation between acidity and activity during the transformation of methanol into hydrocarbons on amorphous silica-alumina", Appl. Catal., 19 (1985) 317 397

Acrolein oxidation

Selective oxidation of acrolein to acrylic acid by $V_2O_5-P_2O_5$ catalysts 167

Adsorption

Oxygen chemisorption and activity studies on alumina- and carbon-supported hydrodesulphurization catalysts 1

Adsorption

Influence of preparative procedure on the activity and selectivity of FeZSM-5 catalysts in syngas conversion 55

Adsorption

Evaluation of a method for characterizing coked and sulphided Rh/Al₂O₃ catalysts: Study of the space and time dependence of sulphur deposition on Rh/Al₂O₃ in toluene steam reforming 145

Adsorption

Radiotracers in fluorine chemistry.
Part X. Catalysis by fluorinated
surfaces. The interaction of hydrogen
fluoride or hydrogen [F]-fluoride
with chromia catalysts 181

Adsorption

Hydrogenolysis of n-butane on silica-supported Ru-Ir bimetallic catalysts 265

Adsorption

Bimetallic Ni-Rh catalysts. I. Surface composition and chemisorption properties 299

Ageing
Influence of prep

Influence of preparative procedure on the activity and selectivity of FeZSM-5 catalysts in syngas conversion 55

Ageing

Evaluation of a method for characterizing coked and sulphided Rh/Al₂O₃ catalysts: Study of the space and time dependence of sulphur deposition on Rh/Al₂O₃ in toluene steam reforming 145

Ageing

An investigation of copper based catalysts for the selective hydrogenation of acetylenes in an industrial butadiene feedstock 161

Ageing

Radiotracers in fluorine chemistry.
Part X. Catalysis by fluorinated
surfaces. The interaction of hydrogen
fluoride or hydrogen [18]-fluoride
with chromia catalysts 181

Ageing

Influence of chlorine towards metal-support and metal-sulphur support interactions 313

Ageing

Catalytic properties of modified offretites 335

Alcohol synthesis

Alcohol synthesis from CO and H₂ over molybdenum sulfide. The effect of pressure and promotion by potassium carbonate 233

Ammonia synthesis

Physico-chemical and Mössbauer study of ammonia synthesis catalyst CA-1 regenerated in plasma 257

Aromatization

The state of platinum in high-silica zeolites and its catalytic activity in ethane and propane aromatization 219

Butane hydrogenolysis

Hydrogenolysis of n-butane on silica-supported Ru-Ir bimetallic catalysts 265

Carbon monoxide hydrogenation
The effect of Ni-Al ratio on the properties of coprecipitated nickel-alumina catalysts with high nickel contents 41

Carbon monoxide hydrogenation
Influence of preparative procedure on
the activity and selectivity of
FeZSM-5 catalysts in syngas conversion

Carbon monoxide hydrogenation
Influence of support and potassium on
CO hydrogenation catalyzed by
molybdenum 69

Carbon monoxide hydrogenation Composite catalysts: selectivity towards light hydrocarbons in the transformation of CO/H₂ on CuO/ZnO mordenite systems 107²

Carbon monoxide hydrogenation
Alcohol synthesis from CO and H₂
over molybdenum sulfide. The effect of
pressure and promotion by potassium
carbonate 233

Carbon monoxide hydrogenation Characterization of FeRu/TiO₂ and Fe/TiO₂ catalysts after reduction and Fischer-Tropsch synthesis by Mössbauer spectroscopy 285

Carbon monoxide hydrogenation Carbon monoxide hydrogenation over group VIII metals supported on tungsten and molybdenum trioxides 325

Catalyst characterization
Oxygen chemisorption and activity
studies on alumina- and carbonsupported hydrodesulphurization
catalysts 1

Catalyst characterization
The preparation of tungsten based catalysts by impregnation of alumina pellets 9

Catalyst characterization
Influence of preparative procedure on
the activity and selectivity of
FeZSM-5 catalysts in syngas conversion
55

Catalyst characterization
The influence of surface functionality
on the activity of carbon-supported
catalysts 117

Catalyst characterization
Evaluation of a method for characterizing coked and sulphided Rh/Al₂O₃ catalysts: Study of the space and time dependence of sulphur deposition on Rh/Al₂O₃ in toluene steam reforming 145

Catalyst characterization
Radiotracers in fluorine chemistry.
Part X. Catalysis by fluorinated
surfaces. The interaction of hydrogen
fluoride or hydrogen [18]-fluoride
with chromia catalysts 181

Catalyst characterization
An investigation of metal-support
interactions in some iron, ruthenium
and iron-ruthenium catalysts by in
situ iron-57 Mössbauer spectroscopy
195

Catalyst characterization
The spaciousness index: a novel test
reaction for characterizing the
effective pore width of bifunctional
zeolite catalysts 207

Catalyst characterization
The state of platinum in high-silica
zeolites and its catalytic activity in
ethane and propane aromatization 219

Catalyst characterization
Preparation and properties of Raney
catalysts from rare earth
intermetallic compounds 243

Catalyst characterization
Physico-chemical and Mössbauer study
of ammonia synthesis catalyst CA-1
regenerated in plasma 257

Catalyst characterization
Dependence of resid processing
selectivity on catalyst pore size
distribution 275

Catalyst characterization
Characterization of FeRu/TiO, and
Fe/TiO, catalysts after reduction
and Fischer-Tropsch synthesis by
Mössbauer spectroscopy 285

Catalyst characterization

Bimetallic Ni-Rh catalysts. I. Surface composition and chemisorption properties 299

Catalyst characterization
Structure and reactivity of
titania-supported oxides. Part 2:
characterisation of various vanadium
oxide on titania catalysts by X-ray
photoelectron spectroscopy 353

Catalyst characterization
Thermal analysis of catalyst
precursors. Part 1. Temperature
programmed evolution of hydrogen
chloride during the reduction of
supported ruthenium trichloride 379

Catalyst preparation
Oxygen chemisorption and activity
studies on alumina- and carbonsupported hydrodesulphurization
catalysts 1

Catalyst preparation
The preparation of tungsten based catalysts by impregnation of alumina pellets 9

Catalyst preparation
Activity of Re₂O₇/SiO₂.Al₂O₃
catalysts for propene metathesis and the influence of alkyltin promotors
31

Catalyst preparation
The effect of Ni-Al ratio on the properties of coprecipitated nickel-alumina catalysts with high nickel contents 41

Catalyst preparation

Influence of preparative procedure on the activity and selectivity of FeZSM-5 catalysts in syngas conversion 55

Catalyst preparation

The influence of surface functionality on the activity of carbon-supported catalysts 117

Catalyst preparation

Preparation and properties of Raney catalysts from rare earth intermetallic compounds 243

Catalyst preparation

Thermal analysis of catalyst precursors. Part 1. Temperature programmed evolution of hydrogen chloride during the reduction of supported ruthenium trichloride 379

Chlorine
Influence of chlorine towards
metal-support and metal-sulphur

support interactions 313 Chromatographic method

Evaluation of a method for characterizing coked and sulphided Rh/Al₂O₃ catalysts: Study of the space and time dependence of sulphur deposition on Rh/Al₂O₃ in toluene steam reforming 145

Chromia

Radiotracers in fluorine chemistry.
Part X. Catalysis by fluorinated
surfaces. The interaction of hydrogen
fluoride or hydrogen [18]-fluoride
with chromia catalysts 181

Cobalt acetate-sodium bromide
Liquid phase oxidation of p-xylene to
p-toluic acid 99

Cobalt-molybdenum/alumina

Oxygen chemisorption and activity studies on alumina- and carbon-supported hydrodesulphurization catalysts 1

Cobalt-molybdenum/alumina
Dependence of resid processing
selectivity on catalyst pore size
distribution 275

Cobalt-molybdenum/carbon
Oxygen chemisorption and activity
studies on alumina- and carbonsupported hydrodesulphurization

catalysts 1 Coke formation

Influence of preparative procedure on the activity and selectivity of FeZSM-5 catalysts in syngas conversion 55

Coke formation

The influence of surface functionality

on the activity of carbon-supported catalysts 117

Copper

An investigation of copper based catalysts for the selective hydrogenation of acetylenes in an industrial butadiene feedstock 161

Copper-chromium/alumina
Exhaust-catalyst development for methanol-fueled vehicles: 1. A comparative study of methanol oxidation over alumina-supported catalysts containing group 9, 10, and 11 metals 83

Copper-zinc/mordenite
Composite catalysts: selectivity
towards light hydrocarbons in the
transformation of CO/H₂ on CuO/ZnO mordenite systems 107²

Cyclohexane dehydrogenation
Influence of chlorine towards
metal-support and metal-sulphur
support interactions 313

Cyclohexene hydrogenation
Oxygen chemisorption and activity
studies on alumina- and carbonsupported hydrodesulphurization
catalysts 1

Cyclohexene hydrogenation Effect of support properties on the catalytic activity of HDS catalysts 21

Dehydrogenation
Preparation and properties of Raney
catalysts from rare earth
intermetallic compounds 243

Dehydrogenation
Influence of chlorine towards
metal-support and metal-sulphur
support interactions 313

Effective pore width
The spaciousness index: a novel test
reaction for characterizing the
effective pore width of bifunctional
zeolite catalysts 207

Ethane aromatization
The state of platinum in high-silica zeolites and its catalytic activity in ethane and propane aromatization 219

Exhaust catalysts
Exhaust-catalyst development for methanol-fueled vehicles: 1. A comparative study of methanol oxidation over alumina-supported catalysts containing group 9, 10, and 11 metals 83

Fischer-Tropsch synthesis
Influence of preparative procedure on
the activity and selectivity of
FeZSM-5 catalysts in syngas conversion
55

Fischer-Tropsch synthesis
An investigation of metal-support
interactions in some iron, ruthenium
and iron-ruthenium catalysts by in
situ iron-57 Mössbauer spectroscopy
195

Fischer-Tropsch synthesis
Characterization of FeRu/TiO, and
Fe/TiO, catalysts after reduction
and Fischer-Tropsch synthesis by
Mössbauer spectroscopy 285

Flow reactor
Selective oxidation of acrolein to
acrylic acid by V₂O₅-P₂O₅
catalysts 167

Fluorinated chromia
Radiotracers in fluorine chemistry.
Part X. Catalysis by fluorinated
surfaces. The interaction of hydrogen
fluoride or hydrogen [187]-fluoride
with chromia catalysts 181

Group VIII metals
Carbon monoxide hydrogenation over
group VIII metals supported on
tungsten and molybdenum trioxides 325

Hydrodesulphurization
Oxygen chemisorption and activity
studies on alumina- and carbonsupported hydrodesulphurization
catalysts 1

Hydrodesulphurization Effect of support properties on the catalytic activity of HDS catalysts

Hydrodesulphurization
The influence of surface functionality
on the activity of carbon-supported
catalysts 117

Hydrogen adsorption
Bimetallic Ni-Rh catalysts. I. Surface composition and chemisorption properties 299

Hydrogenation
Oxygen chemisorption and activity
studies on alumina- and carbonsupported hydrodesulphurization
catalysts 1

Hydrogenation

Effect of support properties on the catalytic activity of HDS catalysts
21

Hydrogenation
The effect of Ni-Al ratio on the properties of coprecipitated nickel-alumina catalysts with high nickel contents 41

Hydrogenation
Influence of preparative procedure on
the activity and selectivity of
FeZSM-5 catalysts in syngas conversion
55

Hydrogenation
Influence of support and potassium on
CO hydrogenation catalyzed by

molybdenum 69

Hydrogenation
Composite catalysts: selectivity
towards light hydrocarbons in the
transformation of CO/H₂ on CuO/ZnO mordenite systems 107²

Hydrogenation
Particle size effect in the hydrogenation of acetylene under industrial conditions 133

Hydrogenation
An investigation of copper based catalysts for the selective hydrogenation of acetylenes in an industrial butadiene feedstock 161

Hydrogenation
Alcohol synthesis from CO and H₂
over molybdenum sulfide. The effect of pressure and promotion by potassium carbonate 233

Hydrogenation
Preparation and properties of Raney
catalysts from rare earth
intermetallic compounds 243

Hydrogenation
Carbon monoxide hydrogenation over
group VIII metals supported on
tungsten and molybdenum trioxides 325

Hydrogenolysis
Hydrogenolysis of n-butane on
silica-supported Ru-Ir bimetallic
catalysts 265

Hydroprocessing
Dependence of resid processing
selectivity on catalyst pore size
distribution 275

Impregnation
The preparation of tungsten based catalysts by impregnation of alumina pellets 9

Intermetallic compounds
Preparation and properties of Raney
catalysts from rare earth
intermetallic compounds 243

Iridium/cerium oxide
Influence of chlorine towards
metal-support and metal-sulphur
support interactions 313

Iridium/niobium oxide
Influence of chlorine towards
metal-support and metal-sulphur
support interactions 313

Iron
Physico-chemical and Mössbauer study
of ammonia synthesis catalyst CA-1
regenerated in plasma 257
Iron-ruthenium/alumina

Iron-ruthenium/alumina
An investigation of metal-support

interactions in some iron, ruthenium and iron-ruthenium catalysts by in situ iron-57 Mössbauer spectroscopy 195

Iron-ruthenium/silica

An investigation of metal-support interactions in some iron, ruthenium and iron-ruthenium catalysts by in situ iron-57 Mössbauer spectroscopy 195

Iron-ruthenium/titanium
Characterization of FeRu/TiO₂ and
Fe/TiO₂ catalysts after reduction
and Fischer-Tropsch synthesis by
Mössbauer spectroscopy 285

Iron/alumina

An investigation of metal-support interactions in some iron, ruthenium and iron-ruthenium catalysts by in situ iron-57 Mössbauer spectroscopy 195

Iron/silica

An investigation of metal-support interactions in some iron, ruthenium and iron-ruthenium catalysts by in situ iron-57 Mõssbauer spectroscopy 195

Iron/titania

Characterization of FeRu/TiO₂ and Fe/TiO₂ catalysts after reduction and Fischer-Tropsch synthesis by Mössbauer spectroscopy 285

Iron/zeolite

Influence of preparative procedure on the activity and selectivity of FeZSM-5 catalysts in syngas conversion 55

Isomerization

Effect of support properties on the catalytic activity of HDS catalysts 21

Kinetics

Influence of preparative procedure on the activity and selectivity of FeZSM-5 catalysts in syngas conversion

Low temperature oxygen chemisorption Oxygen chemisorption and activity studies on alumina- and carbonsupported hydrodesulphurization catalysts 1

Metal-support interaction
Influence of chlorine towards
metal-support and metal-sulphur
support interactions 313

Metathesis

Activity of Re₂0₇/Si0₂.Al₂0₃ catalysts for propene metathesis and the influence of alkyltin promotors 31

Methanation

The effect of Ni-Al ratio on the properties of coprecipitated nickel-alumina catalysts with high nickel contents 41

Methanol conversion

Comments on the effect of the acidic strength of silica-alumina in the conversion of methanol to hydrocarbons 393

Methanol conversion

Reply to the comments of Mandersloot et al. on the paper "Relation between acidity and activity during the transformation of methanol into hydrocarbons on amorphous silica-alumina", Appl. Catal., 19 (1985) 317 397

Methanol oxidation

Exhaust-catalyst development for methanol-fueled vehicles: 1. A comparative study of methanol oxidation over alumina-supported catalysts containing group 9, 10, and 11 metals 83

Methanol synthesis

Alcohol synthesis from CO and H₂ over molybdenum sulfide. The effect of pressure and promotion by potassium carbonate 233

Molybdenum

Influence of support and potassium on CO hydrogenation catalyzed by molybdenum 69

Molybdenum disulphide

Alcohol synthesis from CO and H₂ over molybdenum sulfide. The effect of pressure and promotion by potassium carbonate 233

Molybdenum trioxide

Carbon monoxide hydrogenation over group VIII metals supported on tungsten and molybdenum trioxides 325

Molybdenum/alumina

Oxygen chemisorption and activity studies on alumina- and carbon-supported hydrodesulphurization catalysts 1

Molybdenum/carbon

Oxygen chemisorption and activity studies on alumina— and carbon— supported hydrodesulphurization catalysts 1

Molybdenum/carbon

The influence of surface functionality on the activity of carbon-supported catalysts 117

Mordenites

Composite catalysts: selectivity towards light hydrocarbons in the

transformation of CO/H₂ on CuO/ZnO - mordenite systems 107²

Mössbauer spectroscopy

An investigation of metal-support interactions in some iron, ruthenium and iron-ruthenium catalysts by in situ iron-57 Mössbauer spectroscopy 195

Mössbauer spectroscopy

Physico-chemical and Mössbauer study of ammonia synthesis catalyst CA-1 regenerated in plasma 257

Mössbauer spectroscopy

Characterization of FeRu/TiO₂ and Fe/TiO₂ catalysts after reduction and Fischer-Tropsch synthesis by Mössbauer spectroscopy 285

Nickel-molybdenum/alumina

Effect of support properties on the catalytic activity of HDS catalysts 21

Nickel-rhodium/alumina

Bimetallic Ni-Rh catalysts. I. Surface composition and chemisorption properties 299

Nickel/alumina

The effect of Ni-Al ratio on the properties of coprecipitated nickel-alumina catalysts with high nickel contents 41

Nitrogen dioxide reduction

Catalytic reduction of nitrogen oxides. 2. The reduction of NO₂ 363

Offretites

Catalytic properties of modified offretites 335

Oxidation

Exhaust-catalyst development for methanol-fueled vehicles: 1. A comparative study of methanol oxidation over alumina-supported catalysts containing group 9, 10, and 11 metals 83

Oxidation

Liquid phase oxidation of p-xylene to p-toluic acid 99

Oxidation

Selective oxidation of acrolein to acrylic acid by $V_2^{0}_5$ - $P_2^{0}_5$ catalysts 167

Oxygen adsorption

Oxygen chemisorption and activity studies on alumina- and carbon-supported hydrodesulphurization catalysts 1

Oxygen adsorption

Bimetallic Ni-Rh catalysts. I. Surface composition and chemisorption properties 299

Palladium/alumina

Exhaust-catalyst development for

methanol-fueled vehicles: 1. A comparative study of methanol oxidation over alumina-supported catalysts containing group 9, 10, and 11 metals 83

Palladium/alumina

Particle size effect in the hydrogenation of acetylene under industrial conditions 133

Particle size effect

Particle size effect in the hydrogenation of acetylene under industrial conditions 133

Platinum

The state of platinum in high-silica zeolites and its catalytic activity in ethane and propane aromatization 219

Platinum/alumina

Exhaust-catalyst development for methanol-fueled vehicles: 1. A comparative study of methanol oxidation over alumina-supported catalysts containing group 9, 10, and 11 metals 83

Poisoning

Influence of chlorine towards metal-support and metal-sulphur support interactions 313

Pore size distribution

Dependence of resid processing selectivity on catalyst pore size distribution 275

Potassium carbonate

Alcohol synthesis from CO and H₂ over molybdenum sulfide. The effect of pressure and promotion by potassium carbonate 233

Propane aromatization

The state of platinum in high-silica zeolites and its catalytic activity in ethane and propane aromatization 219

Propene metathesis

Activity of Re₂0₇/Si0₂.Al₂0₃ catalysts for propene metathesis and the influence of alkyltin promotors 31

Radiotracers

Radiotracers in fluorine chemistry.
Part X. Catalysis by fluorinated
surfaces. The interaction of hydrogen
fluoride or hydrogen [18]-fluoride
with chromia catalysts 181

Raney catalysts

Preparation and properties of Raney catalysts from rare earth intermetallic compounds 243

Rare earth intermetallic compounds Preparation and properties of Raney catalysts from rare earth intermetallic compounds 243 Reduction

Catalytic reduction of nitrogen oxides. 2. The reduction of NO₂ 363

Regeneration

Physico-chemical and Mössbauer study of ammonia synthesis catalyst CA-1 regenerated in plasma 257

Regeneration

Influence of chlorine towards metal-support and metal-sulphur support interactions 313

Resid processing

Dependence of resid processing selectivity on catalyst pore size distribution 275

Rhenium/alumina

Activity of Re₂0₇/Si0₂.Al₂0₃ catalysts for propene metathesis and the influence of alkyltin promotors 31

Rhenium/silica-alumina
Activity of Re₂O₇/SiO₂.Al₂O₃
catalysts for propene metathesis and
the influence of alkyltin promotors

Rhodium/alumina

Exhaust-catalyst development for methanol-fueled vehicles: 1. A comparative study of methanol oxidation over alumina-supported catalysts containing group 9, 10, and 11 metals 83

Rhodium/alumina

Evaluation of a method for characterizing coked and sulphided Rh/Al₂O₃ catalysts: Study of the space and time dependence of sulphur deposition on Rh/Al₂O₃ in toluene steam reforming 145

Ruthenium trichloride/alumina
Thermal analysis of catalyst
precursors. Part 1. Temperature
programmed evolution of hydrogen
chloride during the reduction of
supported ruthenium trichloride 379

Ruthenium trichloride/silica
Thermal analysis of catalyst
precursors. Part 1. Temperature
programmed evolution of hydrogen
chloride during the reduction of
supported ruthenium trichloride 379

Ruthenium trichloride/titania
Thermal analysis of catalyst
precursors. Part 1. Temperature
programmed evolution of hydrogen
chloride during the reduction of
supported ruthenium trichloride 379

Ruthenium-iridium/silica
Hydrogenolysis of n-butane on
silica-supported Ru-Ir bimetallic
catalysts 265

Ruthenium/alumina

An investigation of metal-support interactions in some iron, ruthenium and iron-ruthenium catalysts by in situ iron-57 Mössbauer spectroscopy 195

Ruthenium/silica

An investigation of metal-support interactions in some iron, ruthenium and iron-ruthenium catalysts by in situ iron-57 Mössbauer spectroscopy 195

Selectivity

Effect of support properties on the catalytic activity of HDS catalysts 21

Selectivity

Activity of Re₂0₇/Si0₂.Al₂0₃ catalysts for propene metathesis and the influence of alkyltin promotors

Selectivity

Influence of preparative procedure on the activity and selectivity of FeZSM-5 catalysts in syngas conversion 55

Selectivity

Influence of support and potassium on CO hydrogenation catalyzed by molybdenum 69

Selectivity

Composite catalysts: selectivity towards light hydrocarbons in the transformation of CO/H₂ on CuO/ZnO - mordenite systems 107²

Selectivity

Particle size effect in the hydrogenation of acetylene under industrial conditions 133

Selectivity

An investigation of copper based catalysts for the selective hydrogenation of acetylenes in an industrial butadiene feedstock 161

Selectivity
Selective oxidation of acrolein to acrylic acid by V₂⁰5^{-P}2⁰5 catalysts 167

Selectivity

An investigation of metal-support interactions in some iron, ruthenium and iron-ruthenium catalysts by in situ iron-57 Mössbauer spectroscopy 195

Selectivity

Alcohol synthesis from CO and H₂ over molybdenum sulfide. The effect of pressure and promotion by potassium carbonate 233

Selectivity

Hydrogenolysis of n-butane on

silica-supported Ru-Ir bimetallic catalysts 265

Selectivity

Dependence of resid processing selectivity on catalyst pore size distribution 275

Selectivity

Characterization of FeRu/TiO₂ and Fe/TiO₂ catalysts after reduction and Fischer-Tropsch synthesis by Mössbauer spectroscopy 285

Selectivity

Catalytic properties of modified offretites 335

Selectivity

Catalytic reduction of nitrogen oxides. 2. The reduction of NO₂ 363

Silica-alumina

Comments on the effect of the acidic strength of silica-alumina in the conversion of methanol to hydrocarbons 393

Silica-alumina

Reply to the comments of Mandersloot et al. on the paper "Relation between acidity and activity during the transformation of methanol into hydrocarbons on amorphous silica-alumina", Appl. Catal., 19 (1985) 317 397

Spaciousness index

The spaciousness index: a novel test reaction for characterizing the effective pore width of bifunctional zeolite catalysts 207

Sulphur poisoning

Influence of chlorine towards metal-support and metal-sulphur support interactions 313

Support functionalisation

The influence of surface functionality on the activity of carbon-supported catalysts 117

Temperature programmed evolution of hydrogen chloride
Thermal analysis of catalyst precursors. Part 1. Temperature programmed evolution of hydrogen chloride during the reduction of supported ruthenium trichloride 379

Temperature programmed reduction
Thermal analysis of catalyst
precursors. Part 1. Temperature
programmed evolution of hydrogen
chloride during the reduction of
supported ruthenium trichloride 379

Thiophene hydrodesulphurization
Oxygen chemisorption and activity
studies on alumina— and carbon—
supported hydrodesulphurization
catalysts 1

Thiophene hydrodesulphurization Effect of support properties on the catalytic activity of HDS catalysts 21

Thiophene hydrodesulphurization
The influence of surface functionality
on the activity of carbon-supported
catalysts 117

Toluene steam reforming
Evaluation of a method for
characterizing coked and sulphided
Rh/Al₂O₃ catalysts: Study of the
space and time dependence of sulphur
deposition on Rh/Al₂O₃ in toluene
steam reforming 145

Tungsten based catalysts
The preparation of tungsten based
catalysts by impregnation of alumina
pellets 9

Tungsten trioxide
Carbon monoxide hydrogenation over
group VIII metals supported on
tungsten and molybdenum trioxides 325

Tungsten-cobalt/alumina
The preparation of tungsten based
catalysts by impregnation of alumina
pellets 9

Tungsten-nickel/alumina
The preparation of tungsten based
catalysts by impregnation of alumina
nellets 9

Vanadium pentoxide/phosphorus pentoxide Selective oxidation of acrolein to acrylic acid by V₂O₅-P₂O₅ catalysts 167

Vanadium pentoxide/silica-titania Catalytic reduction of nitrogen oxides. 2. The reduction of NO₂ 363

Vanadium pentoxide/titania
Structure and reactivity of
titania-supported oxides. Part 2:
characterisation of various vanadium
oxide on titania catalysts by X-ray
photoelectron spectroscopy 353

X-ray photoelectron spectroscopy Bimetallic Ni-Rh catalysts. I. Surface composition and chemisorption properties 299

X-ray photoelectron spectroscopy Structure and reactivity of titania-supported oxides. Part 2: characterisation of various vanadium oxide on titania catalysts by X-ray photoelectron spectroscopy 353

Xylene oxidation Liquid phase oxidation of p-xylene to p-toluic acid 99

Zeolites

Influence of preparative procedure on the activity and selectivity of

FeZSM-5 catalysts in syngas conversion 55

Zeolites

The spaciousness index: a novel test reaction for characterizing the effective pore width of bifunctional zeolite catalysts 207

Zeolites

The state of platinum in high-silica zeolites and its catalytic activity in ethane and propane aromatization 219 Zeolites

Catalytic properties of modified offretites 335

